

Table F-3. Chemicals Not Detected in Mountain Whitefish

Chemical Group	Chemical	Sample Type	Site			
			9U	48	98	101
Dioxin/furans	1,2,3,7,8,9-HxCDD	FS		✓		
Dioxin/furans	1,2,3,7,8,9-HxCDF	FS			✓	
Dioxin/furans	2,3,4,6,7,8-HxCDF	FS		✓		
Dioxin/furans	1,2,3,4,6,7,8-HpCDF	FS	✓		✓	
Dioxin/furans	1,2,3,4,7,8,9-HpCDF	FS	✓		✓	
Guaiacols/Phenols	4-Chloroguaiacol	FS	✓		✓	
Guaiacols/Phenols	3,4-Dichloroguaiacol	FS	✓		✓	
Guaiacols/Phenols	4,5-Dichloroguaiacol	FS	✓		✓	
Guaiacols/Phenols	4,6-Dichloroguaiacol	FS	✓		✓	
Guaiacols/Phenols	3,4,5-Trichloroguaiacol	FS	✓		✓	
Guaiacols/Phenols	3,4,6-Trichloroguaiacol	FS	✓		✓	
Guaiacols/Phenols	4,5,6-Trichloroguaiacol	FS	✓		✓	
Guaiacols/Phenols	Tetrachloroguaiacol	FS	✓		✓	
Guaiacols/Phenols	2-Chlorophenol	FS	✓		✓	
Guaiacols/Phenols	4-Chloro-3-methylphenol	FS	✓		✓	
Guaiacols/Phenols	2,4-Dichlorophenol	FS	✓		✓	
Guaiacols/Phenols	2,4-Dimethylphenol	FS	✓		✓	
Guaiacols/Phenols	2,4,5-Trichlorophenol	FS	✓		✓	
Guaiacols/Phenols	2,4,6-Trichlorophenol	FS	✓		✓	
Guaiacols/Phenols	2,3,4,6-Tetrachlorophenol	FS	✓		✓	
Guaiacols/Phenols	Pentachlorophenol	FS	✓		✓	
Guaiacols/Phenols	Phenol	FS	✓		✓	
Aroclors	Aroclor 1016	FS	✓		✓	
Aroclors	Aroclor 1221	FS	✓		✓	
Aroclors	Aroclor 1232	FS	✓		✓	
Aroclors	Aroclor 1242	FS			✓	
Aroclors	Aroclor 1248	FS	✓		✓	
Aroclors	Aroclor 1254	FS				✓
Aroclors	Aroclor 1260	FS				✓
PCB Congeners	PCB 126	FS				✓
PCB Congeners	PCB 169	FS		✓		✓
Pesticides	Aldrin	FS			✓	
Pesticides	Alpha-BHC	FS	✓		✓	
Pesticides	Alpha-Chlordene	FS	✓		✓	
Pesticides	Beta-BHC	FS	✓		✓	
Pesticides	cis-Chlordane (alpha-Chlordane)	FS	✓		✓	
Pesticides	cis-Nonachlor	FS			✓	
Pesticides	DDD-o,p'	FS			✓	
Pesticides	DDE-o,p'	FS			✓	
Pesticides	DDT-o,p'	FS		✓	✓	
Pesticides	DDD-p,p'	FS			✓	
Pesticides	DDT-p,p'	FS			✓	
Pesticides	DDMU	FS			✓	
Pesticides	Delta-BHC	FS		✓	✓	
Pesticides	Endosulfan Sulfate	FS		✓	✓	
Pesticides	Gamma-Chlordane	FS		✓	✓	
Pesticides	gamma-Chlordene	FS		✓	✓	
Pesticides	Heptachlor	FS		✓	✓	
Pesticides	Heptachlor Epoxide	FS		✓	✓	
Pesticides	Hexachlorobenzene	FS		✓	✓	
Pesticides	Lindane	FS		✓	✓	
Pesticides	Mirex	FS		✓	✓	
Pesticides	Oxychlordane	FS		✓	✓	
Pesticides	Pentachloroanisol	FS		✓	✓	
Pesticides	Toxaphene	FS		✓	✓	
Pesticides	trans-Nonachlor	FS			✓	
Semivolatiles	1,2,4-Trichlorobenzene	FS		✓	✓	
Semivolatiles	1,2-Diphenylhydrazine	FS		✓	✓	
Semivolatiles	2,4-Dinitrotoluene	FS		✓	✓	

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			9U	48	98	101
Semivolatiles	2,6-Dinitrotoluene	FS	✓	✓	✓	✓
Semivolatiles	2-Chloronaphthalene	FS	✓	✓	✓	✓
Semivolatiles	4-Bromophenyl-Phenylether	FS	✓	✓	✓	✓
Semivolatiles	4-Chlorophenyl-Phenylether	FS	✓	✓	✓	✓
Semivolatiles	Acenaphthene	FS	✓	✓	✓	✓
Semivolatiles	Acenaphthylene	FS	✓	✓	✓	✓
Semivolatiles	Anthracene	FS	✓	✓	✓	✓
Semivolatiles	Benzene, 1,2-dichloro-	FS	✓	✓	✓	✓
Semivolatiles	Benzene, 1,3-dichloro-	FS	✓	✓	✓	✓
Semivolatiles	Benzene, 1,4-dichloro-	FS	✓	✓	✓	✓
Semivolatiles	Benzo(a)anthracene	FS	✓	✓	✓	✓
Semivolatiles	Benzo(a)pyrene	FS	✓	✓	✓	✓
Semivolatiles	Benzo(g,h,i)perylene	FS	✓	✓	✓	✓
Semivolatiles	Benzo[b]Fluoranthene	FS	✓	✓	✓	✓
Semivolatiles	Benzo[k]fluoranthene	FS	✓	✓	✓	✓
Semivolatiles	bis(2-Chloroisopropyl)ether	FS	✓	✓	✓	✓
Semivolatiles	Chrysene	FS	✓	✓	✓	✓
Semivolatiles	Dibenz[a,h]anthracene	FS	✓	✓	✓	✓
Semivolatiles	Dibenzofuran	FS	✓	✓	✓	✓
Semivolatiles	Fluoranthene	FS	✓	✓	✓	✓
Semivolatiles	9H-Fluorene	FS	✓	✓	✓	✓
Semivolatiles	Hexachlorobutadiene	FS	✓	✓	✓	✓
Semivolatiles	Hexachloroethane	FS	✓	✓	✓	✓
Semivolatiles	Indeno(1,2,3-cd)pyrene	FS	✓	✓	✓	✓
Semivolatiles	Naphthalene	FS	✓	✓	✓	✓
Semivolatiles	Naphthalene, 1-methyl-	FS	✓	✓	✓	✓
Semivolatiles	Naphthalene, 2-methyl-	FS	✓	✓	✓	✓
Semivolatiles	Nitrobenzene	FS	✓	✓	✓	✓
Semivolatiles	Phenanthrene	FS	✓	✓	✓	✓
Semivolatiles	Pyrene	FS	✓	✓	✓	✓
Semivolatiles	Retene	FS	✓	✓	✓	✓
Metals	Aluminum	FS			✓	
Metals	Antimony	FS	✓	✓	✓	✓
Metals	Beryllium	FS	✓	✓	✓	✓
Metals	Cadmium	FS			✓	✓
Metals	Chromium	FS		✓	✓	
Metals	Lead	FS				✓
Metals	Mercury	FS	✓			
Metals	Silver	FS	✓	✓	✓	✓
Metals	Thallium	FS	✓	✓	✓	✓
Dioxin/furans	1,2,3,7,8,9-HxCDF	WB		✓		
Dioxin/furans	1,2,3,4,6,7,8-HpCDF	WB	✓	✓		
Dioxin/furans	1,2,3,4,7,8,9-HpCDF	WB		✓		
Dioxin/furans	OCDF	WB		✓		
Guaiacols/Phenols	4-Chloroguaiacol	WB	✓	✓	✓	✓
Guaiacols/Phenols	3,4-Dichloroguaiacol	WB	✓	✓	✓	✓
Guaiacols/Phenols	4,5-Dichloroguaiacol	WB	✓	✓	✓	✓
Guaiacols/Phenols	4,6-Dichloroguaiacol	WB	✓	✓	✓	✓
Guaiacols/Phenols	3,4,5-Trichloroguaiacol	WB	✓	✓	✓	✓
Guaiacols/Phenols	3,4,6-Trichloroguaiacol	WB	✓	✓	✓	✓
Guaiacols/Phenols	4,5,6-Trichloroguaiacol	WB	✓	✓	✓	✓
Guaiacols/Phenols	Tetrachloroguaiacol	WB	✓	✓	✓	✓
Guaiacols/Phenols	2-Chlorophenol	WB	✓	✓	✓	✓
Guaiacols/Phenols	4-Chloro-3-methylphenol	WB	✓	✓	✓	✓
Guaiacols/Phenols	2,4-Dichlorophenol	WB	✓	✓	✓	✓
Guaiacols/Phenols	2,4-Dimethylphenol	WB	✓	✓	✓	✓
Guaiacols/Phenols	2,4,5-Trichlorophenol	WB	✓	✓	✓	na
Guaiacols/Phenols	2,4,6-Trichlorophenol	WB	✓	✓	✓	✓
Guaiacols/Phenols	2,3,4,6-Tetrachlorophenol	WB	✓	✓	✓	na

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			9U	48	98	101
Guaiacols/Phenols	Pentachlorophenol	WB	✓	✓	✓	✓
Guaiacols/Phenols	Phenol	WB	✓	✓	✓	✓
Aroclors	Aroclor 1016	WB	✓	✓	✓	✓
Aroclors	Aroclor 1221	WB	✓	✓	✓	✓
Aroclors	Aroclor 1232	WB	✓	✓	✓	✓
Aroclors	Aroclor 1242	WB		✓	✓	✓
Aroclors	Aroclor 1248	WB	✓	✓	✓	✓
Aroclors	Aroclor 1254	WB				✓
Aroclors	Aroclor 1260	WB			✓	
PCB Congeners	PCB 126	WB				✓
PCB Congeners	PCB 157	WB				✓
PCB Congeners	PCB 169	WB	✓	✓	✓	
Pesticides	Aldrin	WB		✓	✓	✓
Pesticides	Alpha-BHC	WB		✓	✓	✓
Pesticides	Alpha-Chlordene	WB	✓	✓	✓	✓
Pesticides	Beta-BHC	WB	✓	✓	✓	✓
Pesticides	cis-Chlordane (alpha-Chlordane)	WB	✓	✓	✓	✓
Pesticides	cis-Nonachlor	WB			✓	✓
Pesticides	DDD-o,p'	WB			✓	✓
Pesticides	DDE-o,p'	WB			✓	✓
Pesticides	DDT-o,p'	WB	✓	✓	✓	✓
Pesticides	DDD-p,p'	WB			✓	✓
Pesticides	DDT-p,p'	WB			✓	✓
Pesticides	DDMU	WB			✓	✓
Pesticides	Delta-BHC	WB	✓	✓	✓	✓
Pesticides	Endosulfan Sulfate	WB	✓	✓	✓	✓
Pesticides	Gamma-Chlordane	WB	✓	✓	✓	✓
Pesticides	gamma-Chlordene	WB	✓	✓	✓	✓
Pesticides	Heptachlor	WB	✓	✓	✓	✓
Pesticides	Heptachlor Epoxide	WB	✓	✓	✓	✓
Pesticides	Hexachlorobenzene	WB			✓	✓
Pesticides	Lindane	WB	✓	✓	✓	✓
Pesticides	Mirex	WB		✓	✓	✓
Pesticides	Oxychlordane	WB	✓	✓	✓	✓
Pesticides	Pentachloroanisol	WB			✓	✓
Pesticides	Toxaphene	WB	✓	✓	✓	✓
Pesticides	trans-Nonachlor	WB			✓	✓
Semivolatiles	1,2,4-Trichlorobenzene	WB	✓	✓	✓	✓
Semivolatiles	1,2-Diphenylhydrazine	WB	✓	✓	✓	✓
Semivolatiles	2,4-Dinitrotoluene	WB	✓	✓	✓	✓
Semivolatiles	2,6-Dinitrotoluene	WB	✓	✓	✓	✓
Semivolatiles	2-Choronaphthalene	WB	✓	✓	✓	✓
Semivolatiles	4-Bromophenyl-Phenylether	WB	✓	✓	✓	✓
Semivolatiles	4-Chlorophenyl-Phenylether	WB	✓	✓	✓	✓
Semivolatiles	Acenaphthene	WB	✓	✓	✓	✓
Semivolatiles	Acenaphthylene	WB	✓	✓	✓	✓
Semivolatiles	Anthracene	WB	✓	✓	✓	✓
Semivolatiles	Benzene, 1,2-dichloro-	WB	✓	✓	✓	✓
Semivolatiles	Benzene, 1,3-dichloro-	WB	✓	✓	✓	✓
Semivolatiles	Benzene, 1,4-dichloro-	WB	✓	✓	✓	✓
Semivolatiles	Benzo(a)anthracene	WB	✓	✓	✓	✓
Semivolatiles	Benzo(a)pyrene	WB	✓	✓	✓	✓
Semivolatiles	Benzo(g,h,i)perylene	WB	✓	✓	✓	✓
Semivolatiles	Benzo[b]Fluoranthene	WB	✓	✓	✓	✓
Semivolatiles	Benzo[k]fluoranthene	WB	✓	✓	✓	✓
Semivolatiles	bis(2-Chloroisopropyl)ether	WB	✓	✓	✓	✓
Semivolatiles	Chrysene	WB	✓	✓	✓	✓
Semivolatiles	Dibenz[a,h]anthracene	WB	✓	✓	✓	✓
Semivolatiles	Dibenzofuran	WB	✓	✓	✓	✓

Table F-3. Chemicals Not Detected in Mountain Whitefish

Chemical Group	Chemical	Sample Type	Site			
			9U	48	98	101
Semivolatiles	Fluoranthene	WB	✓	✓	✓	✓
Semivolatiles	9H-Fluorene	WB	✓	✓	✓	✓
Semivolatiles	Hexachlorobutadiene	WB	✓	✓	✓	✓
Semivolatiles	Hexachloroethane	WB	✓	✓	✓	✓
Semivolatiles	Indeno(1,2,3-cd)pyrene	WB	✓	✓	✓	✓
Semivolatiles	Naphthalene	WB	✓	✓	✓	✓
Semivolatiles	Naphthalene, 1-methyl-	WB	✓	✓	✓	✓
Semivolatiles	Naphthalene, 2-methyl-	WB	✓	✓		✓
Semivolatiles	Nitrobenzene	WB	✓	✓	✓	✓
Semivolatiles	Phenanthrene	WB	✓	✓	✓	✓
Semivolatiles	Pyrene	WB	✓	✓	✓	✓
Semivolatiles	Retene	WB	✓	✓		✓
Metals	Antimony	WB	✓	✓	✓	✓
Metals	Beryllium	WB	✓	✓	✓	✓
Metals	Mercury	WB	✓			
Metals	Silver	WB	✓	✓	✓	✓
Metals	Thallium	WB	✓	✓	✓	✓

NOTE:

✓ - indicates that chemical was not detected for that species and sample type

na - chemical was not analyzed for that species and sample type

blank - indicates that chemical was detected for that species and sample type

FS - fillet with skin

WB - whole body

Site 9U - located in the upper Columbia River above the Snake River

Site 48 - located in the Yakima River

Site 98 - located in the Deschutes River

Site 101 - located in the Umatilla River